Internal al Application No
PCT/IB2004/003907

		PCT/	IB2004/003907	
A. CLASSI	FICATION OF SUBJECT MATTER C01B31/28 A61K51/00			
A diam to	o International Patent Classification (IPC) or to both national classifica	ation and IDC		
	SEARCHED	ation and IPC		
	cumentation searched (classification system followed by classification	on symbols)		
	C01B			
Documentat	lion searched other than minimum documentation to the extent that s	uch documents are included in the	fields searched .	
Electronic da	ata base consulted during the international search (name of data bas	se and, where practical, search ter	ms used)	
EPO-In	ternal, WPI Data, PAJ, INSPEC, COMP	ENDEX, CHEM ABS Da	ta	
C. DOCUME	ENTS CONSIDERED TO BE RELEVANT			
Category °	Citation of document, with indication, where appropriate, of the rele	evant passages	Relevant to claim No.	
Х	BRINKMAN, G. A. ET AL: "Prepara [.] [11C]-phosgene"	tion of	1,3-7	
:	INTERNATIONAL JOURNAL OF APPLIED			
	AND ISOTOPES CODEN: IJARAY; ISSN 0020-708X,			
	vol. 29, no. 11, 1978, pages 701			
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Y	the whole document		2	
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X	PATENT ABSTRACTS OF JAPAN vol. 1998, no. 10,		8,9	
	31 August 1998 (1998-08-31)			
	& JP 10 135233 A (SONY CORP),			
	22 May 1998 (1998-05-22) abstract			
		,		
		-/		
X Furth	ner documents are listed in the continuation of box C.	re listed in annex.		
° Special ca	tegories of cited documents :	"T" later document published after	the international filing date	
consid	ent defining the general state of the art which is not ered to be of particular relevance	or priority date and not in con cited to understand the princi invention		
"E" earlier o	document but published on or after the international ate	"X" document of particular relevant cannot be considered novel of	ice; the claimed invention or cannot be considered to	
which	nt which may throw doubts on priority claim(s) or is cited to establish the publication date of another	involve an inventive step whe "Y" document of particular relevan	en the document is taken alone	
"O" docume	n or other special reason (as specified) ent referring to an oral disclosure, use, exhibition or	lve an inventive step when the ne or more other such docu-		
other means ments, such combination being obvior in the art.				
	an the priority date claimed	"&" document member of the same patent family Date of mailing of the international search report		
Date of the actual completion of the international search		_		
5 September 2005		2 3. 1	1. 2005	
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2		Authorized officer		
	NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl.	Dimende de D		
Į .	Fax: (+31-70) 340-3016	Rigondaud, B		

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Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
WO 02/102711 A (KIHLBERG, TOR; LAANGSTROEM, BENGT) 27 December 2002 (2002-12-27) cited in the application claims 1,5,6	2		
EP 0 282 703 A (USHIO ELECTRIC INC; USHIO DENKI) 21 September 1988 (1988-09-21) figure 1 column 4, line 27 - line 45	8,9		
DIKSIC, MIRKO ET AL: "An on-line synthesis of "no-carrier-added" [11C]phosgene" INTERNATIONAL JOURNAL OF NUCLEAR MEDICINE AND BIOLOGY, 9(4), 283-5 CODEN: IJNMCI; ISSN: 0047-0740, 1982, XP008049737 the whole document	1-12		
ROEDA D ET AL: "A U.VINDUCED ON-LINE SYNTHESIS OF 11C-PHOSGENE AND THE PREPARATION OF SOME OF ITS DERIVATIVES" INTERNATIONAL JOURNAL OF APPLIED RADIATION AND ISOTOPES, PERGAMON PRESS LTD. OXFORD, GB, vol. 32, 1981, pages 931-932, XP008049780 cited in the application the whole document	1-12		
CROUZEL C ET AL: "11C-LABELED PHOSGENE: AN IMPROVED PROCEDURE AND SYNTHESIS DEVICE" INTERNATIONAL JOURNAL OF APPLIED RADIATION AND ISOTOPS, PERGAMON PRESS, NEW YORK, NY, US, vol. 34, no. 11, 1983, pages 1558-1559, XP001147857 ISSN: 0020-708X the whole document	1-12		
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	WO 02/102711 A (KIHLBERG, TOR; LAANGSTROEM, BENGT) 27 December 2002 (2002-12-27) cited in the application claims 1,5,6 EP 0 282 703 A (USHIO ELECTRIC INC; USHIO DENKI) 21 September 1988 (1988-09-21) figure 1 column 4, line 27 - line 45 DIKSIC, MIRKO ET AL: "An on-line synthesis of "no-carrier-added" [11C]phosgene" INTERNATIONAL JOURNAL OF NUCLEAR MEDICINE AND BIOLOGY, 9(4), 283-5 CODEN: IJNMCI; ISSN: 0047-0740, 1982, XP008049737 the whole document ROEDA D ET AL: "A U.VINDUCED ON-LINE SYNTHESIS OF 11C-PHOSGENE AND THE PREPARATION OF SOME OF ITS DERIVATIVES" INTERNATIONAL JOURNAL OF APPLIED RADIATION AND ISOTOPES, PERGAMON PRESS LTD. OXFORD, GB, vol. 32, 1981, pages 931-932, XP008049780 cited in the application the whole document CROUZEL C ET AL: "11C-LABELED PHOSGENE: AN IMPROVED PROCEDURE AND SYNTHESIS DEVICE" INTERNATIONAL JOURNAL OF APPLIED RADIATION AND ISOTOPS, PERGAMON PRESS, NEW YORK, NY, US, vol. 34, no. 11, 1983, pages 1558-1559, XP001147857 ISSN: 0020-708X the whole document WO 2005/042441 A (AMERSHAM PLC; KIHLBERG, TOR; ITSENKO, OLEKSIY; FERM, TOMMY; LANGSTROM,) 12 May 2005 (2005-05-12)		

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Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
see additional sheet
As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: 1-12
Remark on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-12

The problem solved by the first invention is to provide:
- a process for the preparation of labeled phosgene using the reaction of carbon-isotope monoxide enriched gas-mixture with chlorine gas, this reaction being induced by UV radiation
- a system (apparatus) for performing this labeling synthesis

2. claims: 13-25

The problem solved by the second invention is to provide:
- a process for radio-labeling comprising reaction of
carbon-isotope labelled phosgene with compounds respectively
of formulae (I) and (II) to give a labelled compound of
formulae (III) (see claim 13)

- the carbon-isotope labeled compound so obtained - a kit for positron emission tomography (PET) study comprising a carbon-isotope labelled compound of formula (III) (see claim 20)

In case of search of the second invention demonstrates that compound of formula (III) already exits, then a non-unity "a posteriori " will be raised between claims 13 and 20.

Information on patent family members

International Application No PCT/IB2004/003907

Patent document cited in search report		Publication date	Patent family member(s)			Publication date
JP 10135233	Α	22-05-1998	NONE			
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